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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,698	12/22/2000	Clive C. Hayball	584-1038	9931

7590 06/16/2006

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EXAMINER

HALIM, SAHERA

ART UNIT PAPER NUMBER

2157

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/747,698	<b>Applicant(s)</b> HAYBALL, CLIVE C.	
	<b>Examiner</b> Sahera Halim	<b>Art Unit</b> 2157	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 March 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11, 13 and 14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8, 13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

1. This action is responsive to communication received on March 28, 2006.

Claim 12 has been cancelled.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochberger et al., U.S. Patent No. 6,205,146 (hereinafter Rochberger) in view of Norris, U.S. Pat. No. 5,557,748 (hereinafter Norris).

1. As to claim 1, Rochbeger teaches a method of indexing content in an IP-based network comprising (abstract):

(a) intercepting data traffic flowing in the network (see col. 5 lines 51-57, packets are intercepted on the network),

Rochbeger fails to teach explicitly (b) extracting content Identity information and associated destination location information from the data traffic flow,

(c) generating a mapping from a content item identified by the extracted identity information to at least one destination location identified by the associated, destination location information, and

(d) storing the mapping in a content index database which is operable to provide, an instance mapping containing list of destination locations in response to an instance request containing a content identity.

However, these limitations are well known in the art as evidence by Norris. Norris teaches (b) extracting content Identity information and associated destination location information from the data traffic flow (see col. 4, line 41 –59),

(c) generating a mapping from a content item identified by the extracted identity information to at least one destination location identified by the associated, destination location information (See tables 1 and 2), and

(d) storing the mapping in a content index database which is operable to provide, an instance mapping containing list of destination locations in response to an instance request containing a content identity (See col. 4, line 51-59).

Having the teachings of Rochberger and Norris, it would have been obvious for a person having ordinary skill in the art at the time of the invention to replace certain features of Rochbeger with Norris in order to enable efficient routing and expand system capabilities of Rochbeger.

2. As to claim 2, a method according to claim 1, wherein the step of intercepting traffic is carried out by Intercepting traffic flowing Into a cache, and wherein the method, further comprises advertising the content Identities for which mappings are, stored in

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the content index by sending advertising messages to a predetermined location (see col. 5 lines 58-col. 6 lines 6).

3. As to claim 3, a method according to claim 2, wherein the method further comprises recording the time of traffic flows into the cache which are related to a particular content and calculating the time period between a first flow of the content item into the cache and a subsequent flow of the content item into the cache thereby to assess how long items are held in the cache before they are expired and deleting the mapping relating to that content item when that content item is judged to have expired in the cache (see col. 5 lines 58-col. 6 lines 6, the data is deleted when the timer expires).

4. As to claim 4, a method according to claim 1, wherein the step of intercepting traffic is carried out by intercepting traffic flowing out of an original content source (see col. 5 lines 58-col. 6 lines 6).

5. As to claim 5, a method according to claim 4, wherein the method further comprises receiving an advertising message which advertises a mapping; generated elsewhere on the network and which is related to content items stored in the original content source, and augmenting the content index using information contained in the advertising message (see col. 5 lines 15-57).

6. As to claims 8, and 13, a proxy for an IP-based network comprising:-

(a) a data input operable to receive data from the network (see col. 5 lines 15-57),

(b) a data output operable to send data to the network (see col. 5 lines 15-57),

(c) an identity extractor operable to analysis data received at the data input and to extract content identity information from the data (see col. 5 lines 15-57),

Rochbeger fails to teach explicitly (d) a location extractor operable to analyze data received at the data input and to extract location information from the data,

(e) a mapping generator operable to generate a mapping from a content , identified by identity information provided by the identity one destination location Identified by associated destination location Information provided by the location extractor, and

(f) a content index database operable to store a mapping provided by the mapping generator and which is operable to provide an instance mapping, containing a list of destination locations in response to an instance request containing a content identity.

However, these limitations are well known in the art as evidenced by Norris. Norris teaches (d) a location extractor operable to analyze data received at the data input and to extract location information from the data (see col. 4, line 41 – 59),

(e) a mapping generator operable to generate a mapping from a content , identified by identity information provided by the identity one destination location Identified by associated destination location Information provided by the location extractor (See tables 1 and 2), and

(f) a content index database operable to store a mapping provided by the mapping generator and which is operable to provide an instance mapping, containing a list of destination locations in response to an instance request containing a content identity (See col. 4, lines 51 –59).

Having the teachings of Rochberger and Norris, it would have been obvious for a person having ordinary skill in the art at the time of the invention to replace certain features of Rochbeger with Norris in order to enable efficient routing and expand system capabilities of Rochbeger.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sahera Halim whose telephone number is (703) 305-8054. The examiner can normally be reached on Mondays and Thursday from 8:30-7:00.

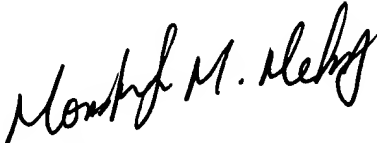
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sahera Halim  
Patent Examiner  
AU: 2157

June 12, 2006

  
MOUSTAFA M. MEKY  
PRIMARY EXAMINER